

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.51)

Attorney Docket No. 200655US20

First Inventor or Application Identifier SAMUEL G. ARMATO, III

Title AUTOMATED METHOD AND SYSTEM FOR THE SEGMENTATION OF LUNG REGIONS IN COMPUTED TOMOGRAPHY SCANS

Assignee Name: ARCH DEVELOPMENT CORPORATION

Assignee Address: 5640 South Ellis Avenue, Room 405, Chicago, IL 60637

ADDRESS TO: Assistant Commissioner for Patent  
Box Patent Application  
Washington, DC 20231

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

Fee Transmittal Form (e.g. PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

Specification

Total Sheets 34

3. Drawing(s) (35 U.S.C. 113)

Total Sheets (FORMAL) 16

4. Oath or Declaration

Total Pages

- a. ☐ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 C.F.R. §1.63(d))  
(for continuation / divisional w/ box 16 completed)

i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §1.63(d)(2) and 1.33(b).

5. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

6. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

- a. ☐ Computer Readable Form (CRF)  
b. Specification or Sequence Listing on:

- i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ Paper

c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

7. ☐ Assignment Papers (cover sheet & document(s))  
8. ☐ Application Data Sheet. See 37 CFR 1.76  
9. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)  
10. ☐ English Translation Document (if applicable)  
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations  
12. ☐ Preliminary Amendment  
13. ☒ White Advance Serial No. Postcard  
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)  
15. ☒ Applicant claims small entity status.  
See 37 CFR 1.27  
16. ☒ Other: Request for Priority

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below:  
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application no.:  
Group Art Unit:

Prior application information: Examiner:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. Amend the specification by inserting before the first line the sentence:

- ☐ This application is a ☐ Continuation ☐ Division ☐ Continuation-in-part (CIP)  
of application Serial No. Filed on  
☐ Which was published in English  
☐ Which was not published in English Filed  
☐ This application claims priority of provisional application Serial No.

**19. CORRESPONDENCE ADDRESS**



22850

(703) 413-3000  
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Name:	Eckhard H. Kuesters	Registration No.:	28,870
Signature:		Date:	1-16-01
Name:	Robert C. Mattson	Registration No.:	42,850

Docket No. 200655US20

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) SAMUEL G. ARMATO, III, ET AL

SERIAL NO: NEW APPLICATION

FILING DATE: HEREWITH

FOR: AUTOMATED METHOD AND SYSTEM FOR THE SEGMENTATION OF LUNG REGIONS IN  
COMPUTED TOMOGRAPHY SCANS

FEE TRANSMITTAL

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

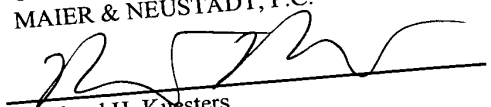
FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	51 - 20 =	31	× \$18 =	\$558.00
INDEPENDENT CLAIMS	15 - 3 =	12	× \$80 =	\$960.00
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS (If applicable)			+ \$270 =	\$0.00
<input checked="" type="checkbox"/> LATE FILING OF DECLARATION			+ \$130 =	\$130.00
BASIC FEE				\$710.00
TOTAL OF ABOVE CALCULATIONS				\$2,358.00
<input checked="" type="checkbox"/> REDUCTION BY 50% FOR FILING BY SMALL ENTITY			+ \$130 =	\$-1,179.00
<input type="checkbox"/> FILING IN NON-ENGLISH LANGUAGE			+ \$40 =	\$0.00
<input type="checkbox"/> RECORDATION OF ASSIGNMENT				\$0.00
TOTAL				\$1,179.00

A duplicate copy of this sheet is enclosed.

- ☐ Please charge Deposit Account No. 15-0030 in the amount of
- ☒ A check in the amount of \$1,179.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 15-0030.  
A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
Eckhard H. Kuesters  
Registration No. 28,870

Robert C. Mattson  
Registration No. 42,850



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(OSMMN 10/00)

1-16-01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: SAMUEL G. ARMATO, III, ET AL

FILING DATE: HERewith

FOR: AUTOMATED METHOD AND SYSTEM FOR THE SEGMENTATION OF LUNG REGIONS IN  
COMPUTED TOMOGRAPHY SCANS

**LIST OF INVENTORS' NAMES AND ADDRESSES**

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Listed below are the names and addresses of the inventors for the above-identified patent application.

Samuel G. Armato, III

Downers Grove, IL 60516

Heber MacMahon

Chicago, IL 60614

Maryellen L. Giger

Elmhurst, IL 60126

A declaration containing all the necessary information will be submitted at a later date.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
Eckhard H. Kuesters

Registration No. 28,870

Robert C. Mattson

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EHK:RCM:djn

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: SAMUEL G. ARMATO, III, ET AL

GAU:

SERIAL NO: NEW APPLICATION

EXAMINER:

FILED: HEREWITH

FOR: AUTOMATED METHOD AND SYSTEM FOR THE SEGMENTATION OF LUNG REGIONS IN  
COMPUTED TOMOGRAPHY SCANS

REQUEST FOR PRIORITY

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

- ☐ Full benefit of the filing date of U.S. Application Serial Number, filed, is claimed pursuant to the provisions of 35 U.S.C. §120.
- ☒ Full benefit of the filing date of U.S. Provisional Application Serial Number 60/176,297, filed January 18, 2000, is claimed pursuant to the provisions of 35 U.S.C. §119(e).
- ☐ Applicants claim any right to priority from any earlier filed applications to which they may be entitled pursuant to the provisions of 35 U.S.C. §119, as noted below.

In the matter of the above-identified application for patent, notice is hereby given that the applicants claim as priority:

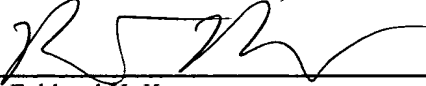
<u>COUNTRY</u>	<u>APPLICATION NUMBER</u>	<u>MONTH/DAY/YEAR</u>
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Certified copies of the corresponding Convention Application(s)

- ☐ are submitted herewith
- ☐ will be submitted prior to payment of the Final Fee
- ☐ were filed in prior application Serial No. filed
- ☐ were submitted to the International Bureau in PCT Application Number .  
Receipt of the certified copies by the International Bureau in a timely manner under PCT Rule 17.1(a) has been acknowledged as evidenced by the attached PCT/IB/304.
- ☐ (A) Application Serial No.(s) were filed in prior application Serial No. filed ; and  
(B) Application Serial No.(s)
  - ☐ are submitted herewith
  - ☐ will be submitted prior to payment of the Final Fee

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
Eckhard H. Kuesters

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09/760854  
01/17/01